

Claims

1 In a mobile telecommunications network comprising a core network and a plurality of control elements, each control element being connectable by radio transmission with a plurality of mobile user equipments, a method of communicating to each user equipment a multiplicity of signaling-related parameters comprising:

grouping the parameters into a first, semi-static group and a second, dynamic group;

storing the first group of parameters in the user equipment;

10 when a signaling requirement is to be transmitted over the radio interface, sending to the user equipment the parameters in the second group and inquiring whether the user equipment has stored within it the parameters in the first group relating to that signaling requirement;

and, if so, implementing the signaling requirement.

15 2 A method according to Claim 1 in which the first, semi-static group of parameters relate to uplink and downlink connection parameters for the services most-frequently used by user equipment.

3 A method according to Claim 1 in which the first, semi-static group of parameters relate to compressed mode operation of user equipment.

20 4 A method according to Claim 2 in which the first, semi-static group of parameters are further divided into profile identifier groups, each identifying a predefined setting number N for each most frequently used service and a version V of that setting number.

25 5 A method according to Claim 4 in which, when a user equipment requests one of the most frequently used services, the network requests the user equipment to use a predefined setting number N and a version V and, if the user equipment has that version V stored, the user equipment returns a "terminal ready" message.

30 6 A method according to Claim 4 in which, when a user equipment request one of the most frequently-used services, the network requests the user equipment to use a predefined setting number N and a

version V and, if the user equipment does not have that version V stored, the network sends to that user equipment the parameters of the predefined setting number N and version V, which the user equipment stores.

5 7 A method according to claim 6 in which the terminal stores those parameters related to version v of setting number N.

8 A method according to claim 1 in which the first group of parameters is intermittently broadcast to user equipment on the broadcast channel of the network.

10 9 A control element for a mobile telecommunications network which is connectable by radio transmission with a plurality of mobile user equipments, comprising, when a user equipment requests a frequently-used service, the control element is arranged to send to the user equipment over the radio interface dynamic signaling-related parameters
15 related to the requested service, and to request the user equipment to indicate if it has stored within it, the semi-static signaling-related parameters related to the requested service; and, if a positive indication is received from the user equipment, to complete call set-up.

20 10 A mobile user equipment for a telecommunications network comprising, the user equipment being connectable by radio transmission to a control element in the network wherein the equipment is arranged to store within it a group of semi-static signaling-related parameters.

25 11 A mobile user equipment according to Claim 9 further arranged to receive said group of parameters from the broadcast channel of the network.